

1 **ABSTRACT OF THE DISCLOSURE**

2 A pedometer for detecting vibrations in a direction of motion is
3 disclosed. The architecture of the device includes a main body, a vibration
4 detector, and a counting circuit. The counting circuit is connected to the
5 vibration detector and the counting circuit and vibration detector are installed
6 inside the main body. Since the vibration detector is disposed orthogonal to the
7 direction of motion, the vibration detector is able to detect the smallest
8 vibration in the direction of motion and outputs a pulse signal to the counting
9 circuit. The counting circuit includes a signal amplifier circuit, a signal
10 detection circuit , and a processor. This pedometer is capable of picking up
11 weak vibration signals to take an accurate count of the jogger's pace.